

## ZKO469

Target Position: exon 5

Sense Strand Sequence

attactgtagtcggttccatcgatgttcataagaaatctgttggtgatcagGAGGCCAGAGATAACCATCCTATC  
AGCAGAGCCGTTTGCAGCTACTTGGTATCCTGTGCCATCTGGA CGGTTTTTCATCTACAGCTTTT  
ACCACACAACCAGTCTGGAGTGAGAATGCTCTGACCTCTGCGCAGgtacagtgattattgcgctttat  
ctagttcaacaactgcttaacacttgccagacacgtgtgtggattctctgtgttactggcatgtt

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO469a: 8bp deletion

CLUSTAL format alignment by MAFFT E-INS-i (v7.215)

```
WT          AGCCGTTTGCAGCTACTTGGTATCCTGTGCCATCTGGACGGTTTTTCATCTACAGCTTTT
ZKO469a     AGCCGTTTGCAGCTACTTGGTATCCTGT-----GACGGTTTTTCATCTACAGCTTTT
*****
```

### ZKO469b: 8bp deletion, 1bp insertion

CLUSTAL format alignment by MAFFT FFT-NS-i (v7.215)

```
WT          AGCCGTTTGCAGCTACTTGGTATCCTGTGCCATCTGGACGGTTTTTCATCTACAGCTTTT
ZKO469b     AGCCGTTTGCAGCTACTTGGTATCCTGTGCCATT-----TTTTTCATCTACAGCTTTT
*****
```